



MBL-S series



LD PUMPED ALL-SOLID-STATE LASER

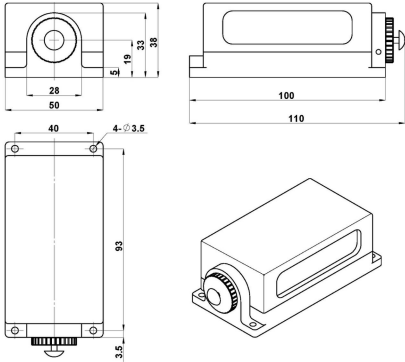
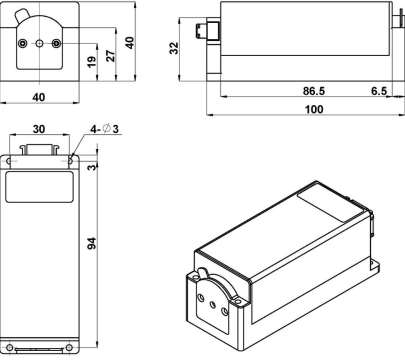
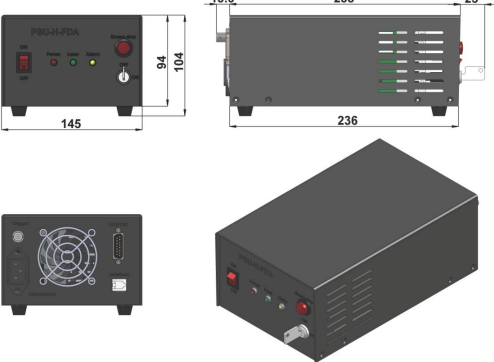
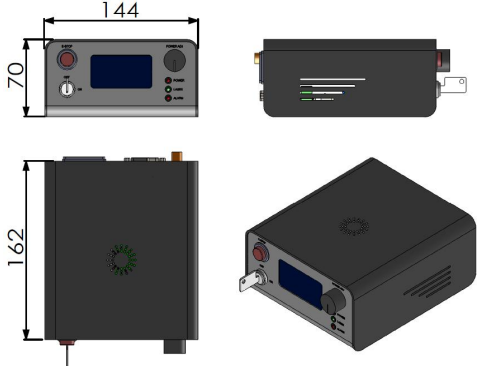
All solid state laser is made features of high output power stability, good beam profile, ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost -effectiveness and easy operating, working under the pressure of 0.02kPa, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.



SPECIFICATIONS

Model	MBL-S-473-A (Harsh condition)	MBL-S-473-B (Normal condition)
Wavelength (nm)	473±1	
Operating mode	CW	
Output power (mW)	1-50	
Power stability (rms, over 4 hours)	<3%, <2%, <1%	
Transverse mode	TEM ₀₀	
M ² factor	<1.2	
Beam diameter at the aperture(1/e ² , mm)	<1.0	
Beam divergence, full angle (mrad)	<1.5	
Polarization ratio	>100:1, Vertical (Horizontal Optional)	
Pointing stability after warm-up (mrad)	<0.05	
Pointing stability Over Temp. (μrad/°C)	<8	
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	19	
Power Consumption(W)	<30	
Shock Tolerance(6ms)	7g laterally, 15g vertically	
IP Rating	IP67	IP65
Power supply(90-264VAC)	PSU-H-FDA	PSU-A-D/ PSU-A-F
Operating temperature (°C)	0-60	10-35
Max. Heat Dissipation of Head(W)	10W@50°C	4W@25°C
Modulation optional	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional	
Expected lifetime (hours)	10000	
Warranty	1 year	

Note: The laser head needs to be used on a heat sink with good heat dissipation.

LASER HEAD (Harsh condition)	LASER HEAD (Normal condition)	POWER SUPPLY (PSU-H-FDA)
 110(L)×50(W)×38(H) mm³, 0.6 kg	 100 (L) ×40 (W) ×40(H) mm³, 0.36kg	 276.6(L)×145(W)×103.6(H) mm³, 2.3 kg
POWER SUPPLY (PSU-A-D)	POWER SUPPLY (PSU-A-F)	
 162 (L) × 144(W) ×70(H) mm³, 0.6kg	 162(L) × 144(W) ×55(H) mm³, 0.5kg	